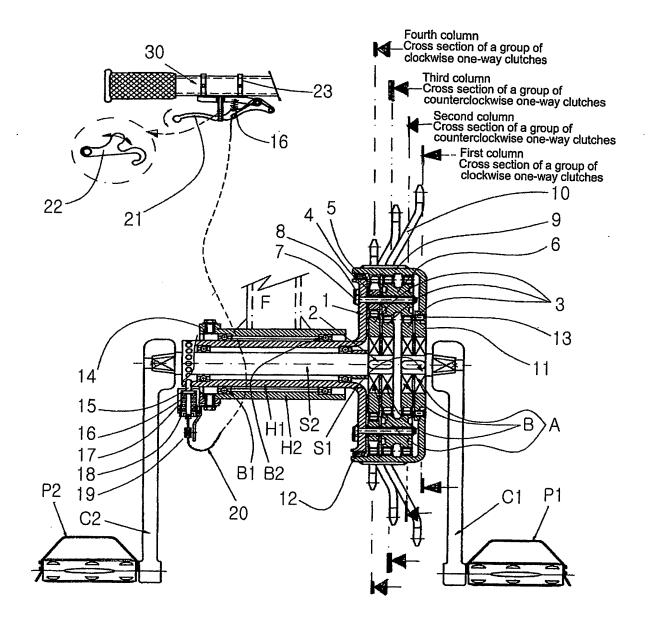
FIG 1



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FIG 2a

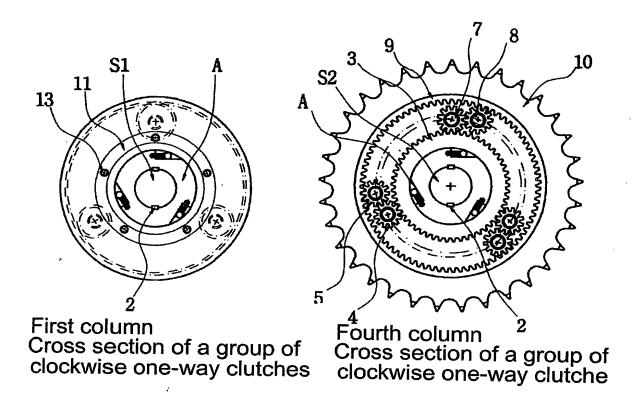
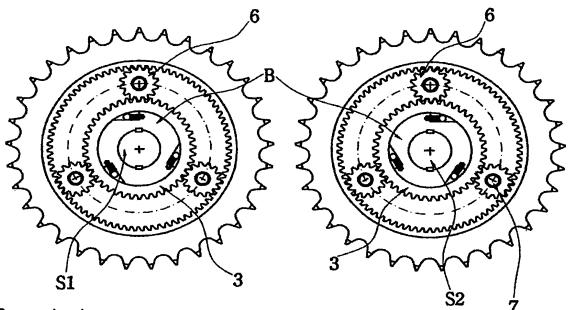


FIG 2b



Second column

Third column Cross section of a group of Cross section of a group of counterclockwise one-way clutches

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FIG 3a

	Symbol	Name	One driving shaft clockwise rolation	One driving shaft (counterclockwise rotation)	The other driving shaft (clockwise rotation)	The other driving shaft (counterclockwise rotation)
(Cross section of a group of clockwise one-way clutches in one column)	S1	One driving shaft	Clockwise rotation	Counterclockwise rotation	Stopped	Stopped
	A	Inner wheel of clockw -ise one-way clutch	Clockwise rotation	Counterclockwise rotation	Stopped	Stopped
	A	Outer wheel of clockw -ise one-way clutch	Clockwise rotation	Passive clockwise rotation	Passive clockwise rotation	Passive dockwise rotation Passive clockwise
	11	Flange	Clockwise rotation	Passive clockwise rotation	Passive clockwise rotation	
	9	Ring gear	Clockwise rotation	Clockwise rotation	Clockwise rotation	rotation Clockwise rotation
		Result		Bicycle moves forward	Bicycle moves forward	Bicycle moves
		Others	In forward movement Inner wheel transfe -rs power to outer	When inner wheel is retailed in the count enclockwise direction, outer wheel idles in the	When inner wheal is rot ated in the countercloc	forward When inner wheel is not ated in the countercloc twise direction, cuter wheel idles in the
11 S1		<b>≵</b> Specialty	The cross-section structure of the first column is the same those of the fourth column whereby one driving shaft and other driving shaft have the same rotational speed ratio.			

FIG 3b

	Symbol	Name	One driving shaft clockwise rotation	One driving shaft counterclockwise rotation)	The other driving shaft (clockwise rotation)	buair 1
(Cross section of a group of counterclockwise one-way clutches in second column)	<u>S1</u>	One driving shaft	Clockwise rotation	Counterclockwise rotation	Stopped	Stopped
S1 9	В	Outer wheel of counterclock wise one-way clutch	Clockwise rotation	Counterclockwise rotation	Stopped	Stopped
THE	В	Inner wheel of counterclock wise one-way clulch	Passive countercl ockwise rotation	rotation	Passive counterclo -ckwise rotation	Passive clockwise rotation
See whomen is	3	Central gear	Passive countercl ockwise rotation	Counterclockwise rotation	Passive counterclo -ckwise rotation	Passive clockwise rotation
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6	Hollow tumabout gear	Passive countercli- ockwise rotation	Clockwise rotation	Passive countercio -ckwise rotation	Counterclockwise rotation
118 3/M+1)28 31	9	Ring gear	Clockwise rotation	Clockwise rotation	Clockwise rotation	Clockwise rotation
Surge son 3		Result	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward
6 - 3		Others	When Inner wheel is rotated in the clockw -lse direction, outer wheel tidles in the counterclockwise direction against inner wheel	When inner wheel is rotated in the counterclockwise direction, outer wheel transfers power	Driving shaft is separated and outer wheel idles in the counterclockwi -se direction	Orlying shaft is

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FIG 3c

Cross sectional view	Symbo!	Name	One driving shaft (clockwise rotation)	One driving shaft (counterclockwise rotation)	The other driving shaft (clockwise rotation)	The other driving shaft (counterclockwise rotation)
(Cross section of a group of clockwise one-way clutches in one column)	S2	The other driving shaft	Stopped	Stopped	Clockwise rotation	Counterclockwise rotation
		Inner wheel of counterclock wise one-way clutch	Stopped	Stopped	Clockwise rotation	Counterclockwise rotation
THE THE PARTY OF T		Outer wheal of counterclock wise one-way clutch	Passive counter- clockwise rotation	Passive counter- Clockwise rotation	Passive counter- clockwise rotation	Counterclockwise rotation
Est whiter 33	3	Central gear	Passive counter- clockwise rotation	clockwise rotation	Passive counter- clockwise rotation	Counterclockwise rotation
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6	Hollow turnabout gear	Passive clockwise rotation	Passive clockwise rotation	Passive clockwise rotation	Clockwise rotation
118 \$ ( ((^+ )) A } }	9	Ring gear	Clockwise rotation	Clockwise rotation	Clockwise rotation	Clockwise rotation
13 mg		Result	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward
6 3		Others	Driving shaft is separated and outer wheel idles in the counterclockwise direction	separated and outer wheel idles in the	When inner wheel is rotated in the clockwise direction, outer wheel idles in the counterclockwise direction against inner wheel	In counterclockwise rotation, outer wheel transfers power.

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FIG 3d

Cross sectional view	Symbol	Name	One driving shaft (clockwise rotation)	One driving shaft (counterclockwise rotation)	The other driving shaft (clockwise rotation)	The other driving shaft (counterclockwise rotation)
(Cross section of a group of clockwise one-way clutches in fourth column)	S2	The other driving shaft	Stopped	Stopped	Clockwise rotation	Counterclockwise rotation
	Α	Inner wheel of clockwise one-way clutch	Stopped	Stopped	Clockwise rotation	Counterclockwise rotation
THE	Α	Outer wheel of clockwise one-way clutch	Passive clockwise rotation	Passive clockwise rotation	Clockwise rotation	Passive clockwise rotation
SO CO STANDONO	3	Central gear	Passive clockwise rotation	Passive clockwise rotation	Clockwise rolation	Passive clockwise
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4	Turnabout gear	Passive counter- clockwise rotation	Passive counter- clockwise rotation	Counterclockwise rotation	Passive counter- clockwise rotation
+ + + + + + + + + + + + + + + + + + +	5	Second turnabout gear	Passive clockwise rotation	Passive clockwise rotation	Clockwise rotation	Passive clockwise rotation
	9	Ring gear	Clockwise rotation	Clockwise rotation	Clockwise rotation	Clockwise rotation
		Result	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward	Bicycle moves forward
		Others	Outer wheel idles against inner wheel	Outer wheel idles against inner wheel	In the clockwise direction, inner wheel transfers power to outer wheel	When inner wheel is rotated in the co- unterclockwise direction, outer wheel idles in the clock- wise direction.